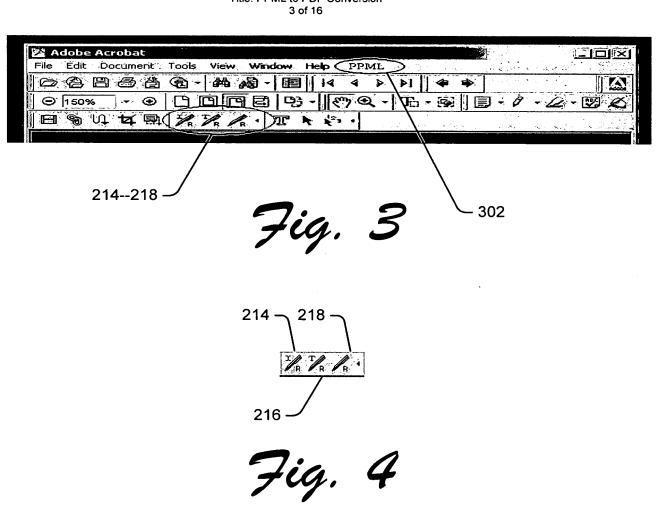
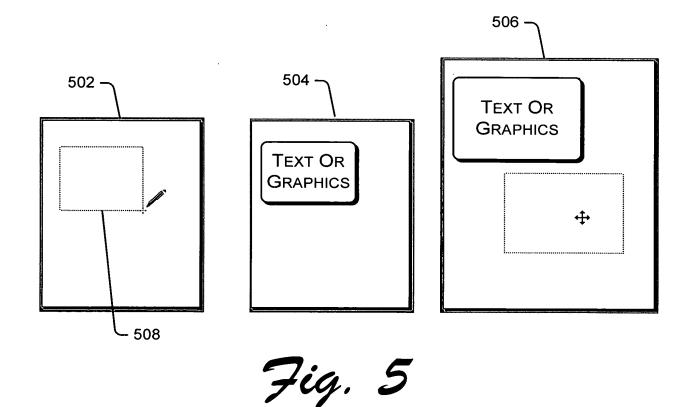


Fig. 1

**200** PDF To PPML TRANSLATOR 202 PDF DOCUMENT 210 GRAPHICS **208** TEXT **204** PPML TEMPLATE 206 USER INTERFACE 212 VARIABLE **OBJECT** 214--218 VARIABLE 220 MACRO FILE **OBJECT CREATION TOOLS** 222 RULES 224 MACRO SELECTION TOOL 226 PPML TEMPLATE 228 PPML To PDF **GENERATOR CONVERTER** 

Inventor: Jose Abad Peiro, Luca Chiarabini, Petar Obradovic Title: PPML to PDF Conversion

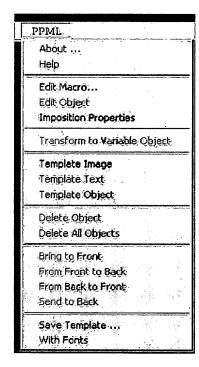




#### HP# 200313161

S/N:

Inventor: Jose Abad Peiro, Luca Chiarabini, Petar Obradovic
Title: PPML to PDF Conversion
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Edit Object

Transform to Variable Object

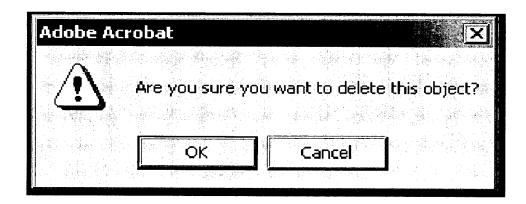
Delete Object

Delete All Objects

Bring to Front
From Front to Back
From Back to Front
Send to Back

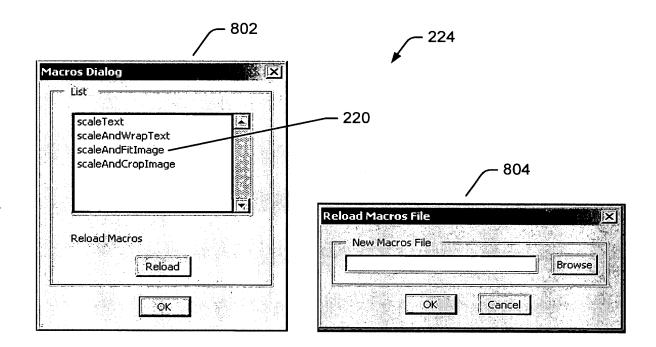
Save Template ...

Fig. 6



S/N:

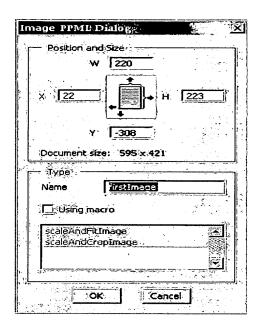
Inventor: Jose Abad Peiro, Luca Chiarabini, Petar Obradovic Title: PPML to PDF Conversion 5 of 16



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Inventor: Jose Abad Peiro, Luca Chiarabini, Petar Obradovic Title: PPML to PDF Conversion 7 of 16



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Fig. 10

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Inventor: Jose Abad Peiro, Luca Chiarabini, Petar Obradovic Title: PPML to PDF Conversion 8 of 16

1200 -

# 1202 OPEN A PDF DOCUMENT

# 1204

PROVIDE A TOOL OPERABLE BY A USER, WITH WHICH THE USER MAY SELECT AND ALTER CHARACTERISTICS OF A PDF ELEMENT

# 1206

SELECT A GRAPHICAL IMAGE WITHIN
THE PDF DOCUMENT

### 1208

SELECT TEXT WITHIN THE PDF
DOCUMENT

# 1210

CONVERT THE PDF ELEMENT WITHIN
THE PDF DOCUMENT INTO A
VARIABLE OBJECT

# 1212

GENERATE A MACRO FILE TO CONTAIN RULES GOVERNING USE OF THE VARIABLE OJBECT

### 1214

CONFIGURE A PPML TEMPLATE TO INCLUDE THE VARIABLE OBJECT, THE MACRO FILE & THE PDF DOCUMENT AS A BACKGROUND

# 1216

MERGE THE PPML TEMPLATE WITH DATA ACCORDING TO THE RULES AND SEND PPML DOCUMENT FOR PRINTING ON A DIGITAL PRESS

Inventor: Jose Abad Peiro, Luca Chiarabini, Petar Obradovic Title: PPML to PDF Conversion 9 of 16

1300 —

1302
PROVIDE THE USER WITH A FIRST
SET OF PROPERTIES FOR GRAPHICS
AND A SECOND FOR TEXT

1304

ALLOW THE USER TO ADJUST THE PROPERTIES

<u>1306</u>

EXEMPLARY ADJUSTMENT: WITHIN THE VARIABLE OBJECT, REGULATE: TEXT SCALING AND WRAPPING, IMAGE SCALING AND CROPPING

1308

GOVERN OPERATION PPML VARIABLE
OBJECTS ACCORDING TO THE
PROPERTIES

#### HP# 200313161 S/N: \_\_\_\_

Inventor: Jose Abad Peiro, Luca Chiarabini, Petar Obradovic
Title: PPML to PDF Conversion
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1402 SAVE THE PPML DOCUMENT

1404

OPTION 1: PRESENT A USER WITH A
CHOICE BETWEEN FILENAME
EXTENSIONS

1406

OPTION 2: SAVE THE PPML
DOCUMENT AS AN OPTIMIZED-TREE
STRUCTURE

1408

USE A PPML TO PDF FLATTENER TO PRODUCE AN OPTIMIZED PDF DOCUMENT

Fig. 14

\_\_\_ 1400

1600 —

<u>1602</u>

MARK A PDF DOCUMENT TO INDICATE VARIABLE OBJECTS

1604

FORM A PPML DOCUMENT TO INCLUDE THE VARIABLE OBJECTS AND TO INCLUDE THE PDF DOCUMENT AS A BACKGROUND

1606

CONFIGURE MACROS TO GOVERN USE OF THE VARIABLE OBJECTS

1608

PRINT THE PPML DOCUMENT, EXECUTING THE MACRO FILE TO GOVERN USE OF THE VARIABLE OBJECT

S/N:

Inventor: Jose Abad Peiro, Luca Chiarabini, Petar Obradovic Title: PPML to PDF Conversion 11 of 16

1500 —

# 1502

MODIFY A PDF DOCUMENT TO INCLUDE MARKING ELEMENTS TO LINK A VARIABLE OBJECT WITH A MACRO FILE

1504

CONFIGURE A MACRO FILE

1506

OPTION 1: CONFIGURE AN EXTERNAL XSLT MACRO FILE TO CONTAIN THE RULES GOVERNING THE USE OF THE VARIABLE OBJECT

1508

OPTION 2: CONFIGURE THE MACRO FILE AS AN XML FILE CONTAINING MACROS DESCRIBED BY AN XML SCHEMA

1510

CONFIGURE A PPML FILE

1512

OPTION 1: CONFIGURE THE TEMPLATE
TO INCLUDE AT LEAST ONE MACRO
FILE USED BY THE TEMPLATE

1514

OPTION 2: DEFINE A VARIABLE
OBJECT WITHIN THE TEMPLATE AS
REUSABLE

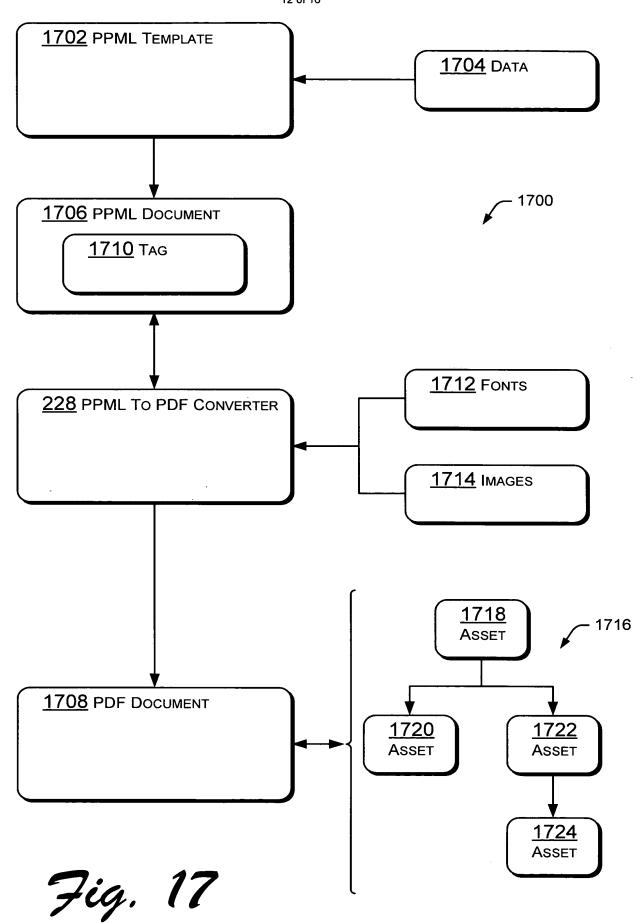
1516

OPTION 3: LIST FONTS REQUIRED WITHIN THE PPML TEMPLATE

1518

OPTION 4: REFERENCE THE PDF
DOCUMENT AS A BACKGROUND PPML
ASSET

Inventor: Jose Abad Peiro, Luca Chiarabini, Petar Obradovic Title: PPML to PDF Conversion 12 of 16



#### HP# 200313161

S/N:

Inventor: Jose Abad Peiro, Luca Chiarabini, Petar Obradovic Title: PPML to PDF Conversion 13 of 16

# 228 PPML TO PDF CONVERTER

1802

PPML DOCUMENT INTERPRETATION COMPONENT

1812

Un-Marshalling Component

1804

PARSING AND TAGGING COMPONENT

1814

SOURCERESOLVER
INTERFACE COMPONENT

1806

PPML SOURCE\_TYPE CLASS RESOLVING COMPONENT

<u>1816</u>

FONTRESOLVER
INTERFACE COMPONENT

<u>1808</u>

TRANSLATION COMPONENT

1818

OCCURRENCESTORE INTERFACE COMPONENT

<u> 1810</u>

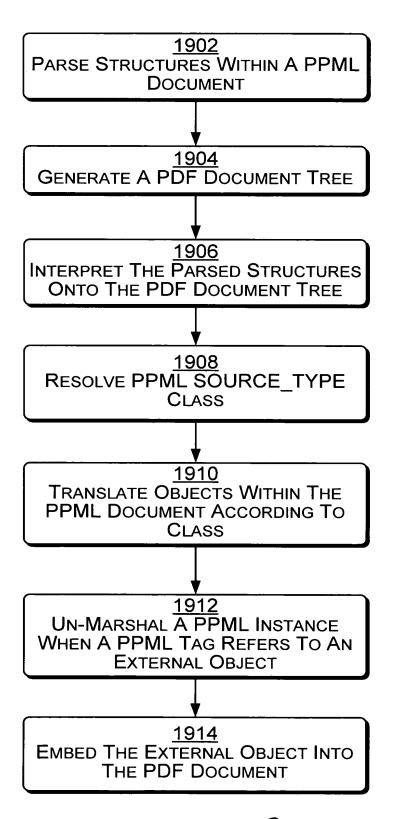
PDF TREE GENERATING COMPONENT

1820

IMPOSITIONSTORE
INTERFACE COMPONENT

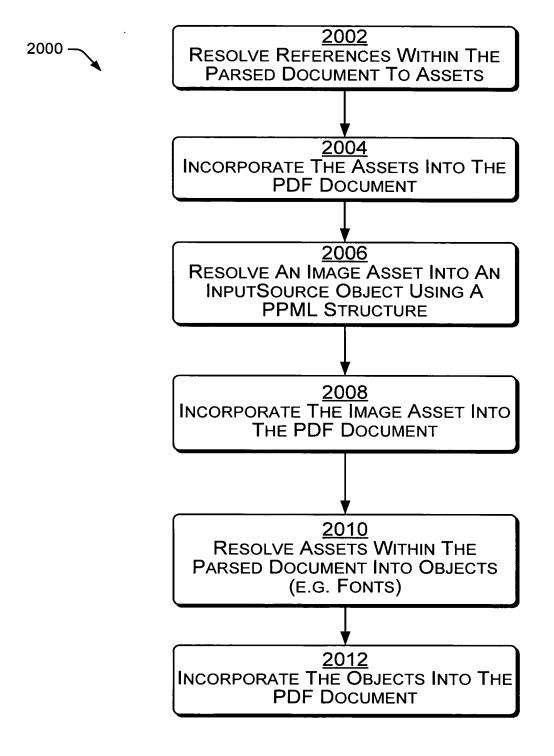
Inventor: Jose Abad Peiro, Luca Chiarabini, Petar Obradovic
Title: PPML to PDF Conversion
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1900 —



S/N:

Inventor: Jose Abad Peiro, Luca Chiarabini, Petar Obradovic Title: PPML to PDF Conversion 15 of 16



Inventor: Jose Abad Peiro, Luca Chiarabini, Petar Obradovic Title: PPML to PDF Conversion 16 of 16



